

IMV VIBRATION TEST SYSTEMS

J series

IMV-Smart™ ECO-Shaker

Air-cooled Vibration Test Systems J240/EM4AM



Long duration shock tests require high velocity and large displacement. J-series is a high-frequency system that offers usability and durability furnished with functions that accommodates high velocity and displacement testing.

[Expanded maximum test range]

Maximum velocity of Sine force: 94 in/s, Maximum velocity of Shock force 137 in/s, Maximum displacement: 4.0 in-p

[Patented upper (armature) support system PS Guide] Parallel Slope Guide is standard.

[All models can be directly coupled to a climatic chamber.]



1. High velocity and large displacement

High velocity of 94 in/s and Large displacement of 4.0 in-p.



PS guide system

2. Improvement of testing environment

With the operation of Intelligence Shaker Management (ISM), EM range can reduce power consumption and CO2 emissions automatically.

3. User first principle

Compatible with K2 vibration controller. Intuitive interface leads The operator with user-friendly guidance.



eco-shaker



System Specification		
Frequency Range (Hz)	0-3,000	
Rated Force	Sine (lbf)	5,400
	Random (lbf rms) *1	5,400
	Shock (lbf)	12,400
	High Velocity Shock (lbf) *4	10,800
Maximum Acc.	Sine (g)	94
	Random (g rms)	65
	Shock (g peak)	204
	High Velocity Shock (g peak) *4	188
Maximum Vel.	Sine (in/s)	94
	Shock (in/s peak)	94
	High Velocity Shock (in/s peak) *4	137
Maximum Disp.	Sine (inp-p)	4.0
	High Velocity Shock (inp-p) *4	4.0
Maximum Travel (inp-p)	4.7	
Maximum Load (lbs)	880	
Power Requirements (kVA) *2	38	
Breaker Capacity (A) *3	75	

Vibration Generator (J240)	
Armature Mass (lbs)	57.3
Armature Diameter (φ in)	11.4
Armature Resonance (Hz)	2,000
Allowance Eccentric Moment (lbf·in)	7,530
Mass (lbs)	5,295

Power Amplifier (EM4AM-J40)	
Maximum Output (kVA)	34
Amplifier Bay	1
Mass (lbs)	1,080

Cooling Blower (VAPE/N 560/2R)	
Mass (lbs)	463

Environmental Data		
Input Voltage Supply (3 φ, V)	220/480	
Compressed Air Supply (psi)	102	
Working Ambient Temperature	Shaker (F)	32-104
	Amplifier (F)	32-104

*1 Random force ratings are specified in accordance with ISO5344 conditions. Please contact IMV or your local distributor with specific test requirements.

*2 Power supply: 3-phase 220/480 V, 60 Hz. A transformer is required for other supply voltages.

*3 Breaker capacity for 480 V.

*4 For high-velocity option

*For random vibration tests, please set the test definition of the peak value of acceleration waveform to operate at less than the maximum acceleration of shock.

*Frequency range values vary according to the sensor and vibration controller.

*Armature mass and acceleration may change when a chamber is added.

Vibration Generator (J240)

a: W 49 in
b: H 45 in
c: D 35 in
d: 29 φin

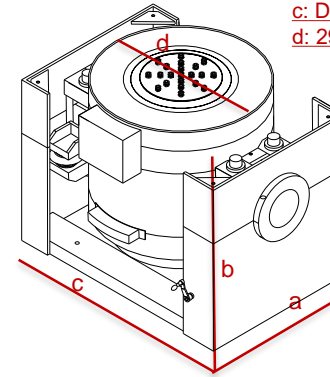
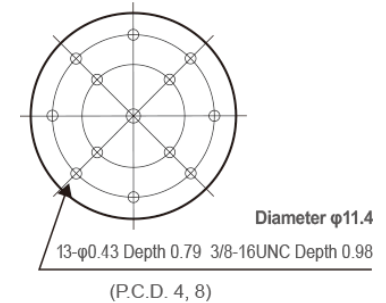
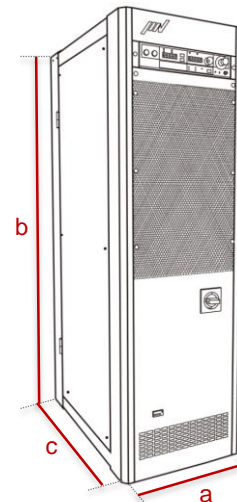


Table Insert Pattern (unit: inch)



Amplifier (EM4AM-J40)

a: W 23 in
b: H 69 in
c: D 34 in



Blower (VAPE/N 560/2R)

a: W 28 in
b: H 61 in
c: D 37 in

